



STATE OF WASHINGTON

**DEPARTMENT OF ECOLOGY**

*PO Box 488 • Manchester, WA 98353-0488 • (360) 871-8840*

February 28, 2023

Clifford Baldrige  
Enthalpy Analytical, LLC - Durham  
800-1 Capitola Drive  
Durham, NC 27513

Dear Clifford Baldrige:

Thank you for your application for renewal in the Environmental Laboratory Accreditation Program. Attached is a new Certificate of Accreditation covering the one-year period beginning March 7, 2023 and a current Scope of Accreditation.

Accreditation is based in part on third party recognition of the Labs Louisiana Department of Environmental Quality accreditation.

Accreditation for EPA TO-14A Rev. 2 (1999) in Air is Withdrawn at laboratory request.

The following parameters have been added to your scope of accreditation in recognition of your Louisiana Department of Environmental Quality accreditation and (when applicable) of acceptable PT analysis:

- Carbon monoxide by ASTM D1946-90 (06) in Air
- Carbon dioxide by ASTM D1946-90 (06) in Air
- Hydrogen by ASTM D1946-90 (06) in Air
- Methane by ASTM D1946-90 (06) in Air
- Nitrogen by ASTM D1946-90 (06) in Air
- Oxygen by ASTM D1946-90 (06) in Air
- Carbon monoxide by EPA 3C in Air
- Carbon dioxide by EPA 3C in Air
- Hydrogen by EPA 3C in Air
- Methane by EPA 3C in Air
- Nitrogen by EPA 3C in Air
- Oxygen by EPA 3C in Air
- 2,5-Dimethylbenzaldehyde by EPA TO-11A Rev 2 (1999) in Air
- Acetaldehyde by EPA TO-11A Rev 2 (1999) in Air
- Acrolein (Propenal) by EPA TO-11A Rev 2 (1999) in Air
- Benzaldehyde by EPA TO-11A Rev 2 (1999) in Air
- Butylaldehyde by EPA TO-11A Rev 2 (1999) in Air
- Crotonaldehyde by EPA TO-11A Rev 2 (1999) in Air
- Formaldehyde by EPA TO-11A Rev 2 (1999) in Air
- Hexanaldehyde by EPA TO-11A Rev 2 (1999) in Air
- Isovaleraldehyde by EPA TO-11A Rev 2 (1999) in Air
- Propionaldehyde by EPA TO-11A Rev 2 (1999) in Air

- m-Tolualdehyde by EPA TO-11A Rev 2 (1999) in Air
- o-Tolualdehyde by EPA TO-11A Rev 2 (1999) in Air
- p-Tolualdehyde by EPA TO-11A Rev 2 (1999) in Air
- Valeraldehyde by EPA TO-11A Rev 2 (1999) in Air

Based on your laboratory's two most recent sets of PT Study results, full accreditation is warranted for all applicable parameters. As a reminder, continued participation in the Ecology Lab Accreditation Program requires the lab to:

- Submit a renewal application and fees annually
- Report significant changes in facility, personnel, analytical methods, equipment, the lab's quality assurance (QA) manual or QA procedures as they occur
- **Participate in proficiency testing studies semi-annually, with the following exception: For each parameter where all PT results were satisfactory, you are required to submit only one PT result over this next year, and in subsequent years, as long as the results are satisfactory.**
- Submit copies of current third-party Scopes of Accreditation when they are available.

If you have any questions concerning the accreditation of your lab, please contact Ryan Zboralski at (360) 764-9364, fax (360) 871-8849, or by e-mail at [ryan.zboralski@ecy.wa.gov](mailto:ryan.zboralski@ecy.wa.gov).

Sincerely,



Rebecca Wood  
Lab Accreditation Unit Supervisor

RW:ERZ:erz  
Enclosures

The State of  
Department



Washington  
of Ecology

**Enthalpy Analytical, LLC - Durham**  
**Durham, NC**

has complied with provisions set forth in Chapter 173-50 WAC and is hereby recognized by the Department of Ecology as an ACCREDITED LABORATORY for the analytical parameters listed on the accompanying Scope of Accreditation.

This certificate is effective March 7, 2023 and shall expire March 6, 2024.

Witnessed under my hand on February 28, 2023.

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Rebecca Wood  
Lab Accreditation Unit Supervisor

Laboratory ID  
**C1036**

# WASHINGTON STATE DEPARTMENT OF ECOLOGY

## ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

### SCOPE OF ACCREDITATION

#### Enthalpy Analytical, LLC - Durham

#### Durham, NC

is accredited for the analytes listed below using the methods indicated. Full accreditation is granted unless stated otherwise in a note. EPA is the U.S. Environmental Protection Agency. SM is "Standard Methods for the Examination of Water and Wastewater." SM refers to EPA approved method versions. ASTM is the American Society for Testing and Materials. USGS is the U.S. Geological Survey. AOAC is the Association of Official Analytical Chemists. Other references are described in notes.

Matrix/Analyte	Method	Notes
<b>Air</b>		
Carbon dioxide	ASTM D1946-90 (06)	1
Carbon monoxide	ASTM D1946-90 (06)	1
Hydrogen	ASTM D1946-90 (06)	1
Methane	ASTM D1946-90 (06)	1
Nitrogen	ASTM D1946-90 (06)	1
Oxygen	ASTM D1946-90 (06)	1
1,3-Butadiene	EPA 325B	1
Benzene	EPA 325B	1
Ethylbenzene	EPA 325B	1
m+p-xylene	EPA 325B	1
o-Xylene	EPA 325B	1
Toluene	EPA 325B	1
Carbon dioxide	EPA 3C	1
Carbon monoxide	EPA 3C	1
Hydrogen	EPA 3C	1
Methane	EPA 3C	1
Nitrogen	EPA 3C	1
Oxygen	EPA 3C	1
2,5-Dimethylbenzaldehyde	EPA TO-11A Rev 2 (1999)	1
Acetaldehyde	EPA TO-11A Rev 2 (1999)	1
Acrolein (Propenal)	EPA TO-11A Rev 2 (1999)	1
Benzaldehyde	EPA TO-11A Rev 2 (1999)	1
Butylaldehyde	EPA TO-11A Rev 2 (1999)	1
Crotonaldehyde	EPA TO-11A Rev 2 (1999)	1
Formaldehyde	EPA TO-11A Rev 2 (1999)	1
Hexanaldehyde	EPA TO-11A Rev 2 (1999)	1

Washington State Department of Ecology

Effective Date: 3/7/2023

Scope of Accreditation Report for Enthalpy Analytical, LLC - Durham

C1036-23

Laboratory Accreditation Unit

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Scope Expires: 3/6/2024

Enthalpy Analytical, LLC - Durham

Matrix/Analyte	Method	Notes
<b>Air</b>		
Isovaleraldehyde	EPA TO-11A Rev 2 (1999)	1
m-Tolualdehyde	EPA TO-11A Rev 2 (1999)	1
o-Tolualdehyde	EPA TO-11A Rev 2 (1999)	1
Propionaldehyde	EPA TO-11A Rev 2 (1999)	1
p-Tolualdehyde	EPA TO-11A Rev 2 (1999)	1
Valeraldehyde	EPA TO-11A Rev 2 (1999)	1
1,1,1-Trichloroethane	EPA TO-15 Rev. 2 (1999)	1
1,1,2,2-Tetrachloroethane	EPA TO-15 Rev. 2 (1999)	1
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA TO-15 Rev. 2 (1999)	1
1,1,2-Trichloroethane	EPA TO-15 Rev. 2 (1999)	1
1,1-Dichloroethane	EPA TO-15 Rev. 2 (1999)	1
1,1-Dichloroethylene	EPA TO-15 Rev. 2 (1999)	1
1,2,4-Trichlorobenzene	EPA TO-15 Rev. 2 (1999)	1
1,2,4-Trimethylbenzene	EPA TO-15 Rev. 2 (1999)	1
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA TO-15 Rev. 2 (1999)	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	EPA TO-15 Rev. 2 (1999)	1
1,2-Dichlorobenzene	EPA TO-15 Rev. 2 (1999)	1
1,2-Dichloroethane (Ethylene dichloride)	EPA TO-15 Rev. 2 (1999)	1
1,2-Dichloropropane	EPA TO-15 Rev. 2 (1999)	1
1,3,5-Trimethylbenzene	EPA TO-15 Rev. 2 (1999)	1
1,3-Butadiene	EPA TO-15 Rev. 2 (1999)	1
1,3-Dichlorobenzene	EPA TO-15 Rev. 2 (1999)	1
1,4-Dichlorobenzene	EPA TO-15 Rev. 2 (1999)	1
1,4-Dioxane (1,4- Diethyleneoxide)	EPA TO-15 Rev. 2 (1999)	1
1-Propene	EPA TO-15 Rev. 2 (1999)	1
2,2,4-Trimethylpentane	EPA TO-15 Rev. 2 (1999)	1
2-Butanone (Methyl ethyl ketone, MEK)	EPA TO-15 Rev. 2 (1999)	1
2-Hexanone	EPA TO-15 Rev. 2 (1999)	1
3-Methylpentane	EPA TO-15 Rev. 2 (1999)	1
4-Ethyltoluene	EPA TO-15 Rev. 2 (1999)	1
4-Methyl-2-pentanone (MIBK)	EPA TO-15 Rev. 2 (1999)	1
Acetone	EPA TO-15 Rev. 2 (1999)	1
Acetonitrile	EPA TO-15 Rev. 2 (1999)	1
Acrolein (Propenal)	EPA TO-15 Rev. 2 (1999)	1
Acrylonitrile	EPA TO-15 Rev. 2 (1999)	1
Allyl chloride (3-Chloropropene)	EPA TO-15 Rev. 2 (1999)	1
Benzene	EPA TO-15 Rev. 2 (1999)	1

Enthalpy Analytical, LLC - Durham

Matrix/Analyte	Method	Notes
<b>Air</b>		
Benzyl chloride	EPA TO-15 Rev. 2 (1999)	1
Bromodichloromethane	EPA TO-15 Rev. 2 (1999)	1
Bromoform	EPA TO-15 Rev. 2 (1999)	1
Carbon disulfide	EPA TO-15 Rev. 2 (1999)	1
Carbon tetrachloride	EPA TO-15 Rev. 2 (1999)	1
Chlorobenzene	EPA TO-15 Rev. 2 (1999)	1
Chlorodibromomethane	EPA TO-15 Rev. 2 (1999)	1
Chloroform	EPA TO-15 Rev. 2 (1999)	1
cis-1,2-Dichloroethylene	EPA TO-15 Rev. 2 (1999)	1
cis-1,3-Dichloropropene	EPA TO-15 Rev. 2 (1999)	1
Cyclohexane	EPA TO-15 Rev. 2 (1999)	1
Dichlorodifluoromethane (Freon-12)	EPA TO-15 Rev. 2 (1999)	1
Ethyl acetate	EPA TO-15 Rev. 2 (1999)	1
Ethyl chloride	EPA TO-15 Rev. 2 (1999)	1
Ethylbenzene	EPA TO-15 Rev. 2 (1999)	1
Hexachlorobutadiene	EPA TO-15 Rev. 2 (1999)	1
Hexane	EPA TO-15 Rev. 2 (1999)	1
m+p-xylene	EPA TO-15 Rev. 2 (1999)	1
Methyl bromide (Bromomethane)	EPA TO-15 Rev. 2 (1999)	1
Methyl chloride (Chloromethane)	EPA TO-15 Rev. 2 (1999)	1
Methyl methacrylate	EPA TO-15 Rev. 2 (1999)	1
Methyl tert-butyl ether (MTBE)	EPA TO-15 Rev. 2 (1999)	1
Methylene chloride (Dichloromethane)	EPA TO-15 Rev. 2 (1999)	1
n-Heptane	EPA TO-15 Rev. 2 (1999)	1
o-Xylene	EPA TO-15 Rev. 2 (1999)	1
Styrene	EPA TO-15 Rev. 2 (1999)	1
Tetrachloroethylene (Perchloroethylene)	EPA TO-15 Rev. 2 (1999)	1
Tetrahydrofuran (THF)	EPA TO-15 Rev. 2 (1999)	1
Toluene	EPA TO-15 Rev. 2 (1999)	1
trans-1,2-Dichloroethylene	EPA TO-15 Rev. 2 (1999)	1
trans-1,3-Dichloropropylene	EPA TO-15 Rev. 2 (1999)	1
Trichloroethene (Trichloroethylene)	EPA TO-15 Rev. 2 (1999)	1
Trichlorofluoromethane (Freon 11)	EPA TO-15 Rev. 2 (1999)	1
Vinyl acetate	EPA TO-15 Rev. 2 (1999)	1
Vinyl bromide	EPA TO-15 Rev. 2 (1999)	1
Vinyl chloride	EPA TO-15 Rev. 2 (1999)	1
Xylene (total)	EPA TO-15 Rev. 2 (1999)	1

Matrix/Analyte	Method	Notes
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**Accredited Parameter Note Detail**

(1) Accreditation based in part on recognition of Louisiana Department of Environmental Quality accreditation.



02/28/2023

Authentication Signature

Date

Rebecca Wood, Lab Accreditation Unit Supervisor